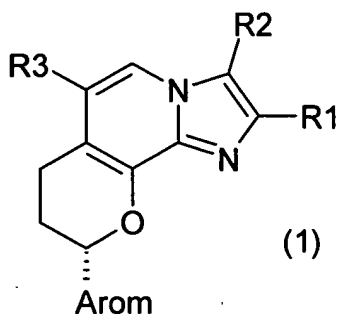


Appendix A

Claim Amendments

1. (Currently amended) A compound of the formula 1



in which

R1 is hydrogen, 1-4C-alkyl, 3-7C-cycloalkyl, 1-4C-alkoxy-1-4C-alkyl or 1-4C-alkoxycarbonyl,

R2 is hydrogen, 1-4C-alkyl, halogen, 2-4C-alkenyl, 2-4C-alkynyl, hydroxy-1-4C-alkyl, 3-7C-cycloalkyl, 1-4C-alkoxycarbonyl,

R3 is hydroxy-1-2C-alkyl, 1-4C-alkoxy-1-2C-alkyl, 1-4C-alkoxy-1-4C-alkoxy-1-2C-alkyl, 1-4-C-alkoxycarbonyl or the radical -CO-NR31R32,

where

R31 is hydrogen, 1-7C-alkyl, hydroxy-1-4C-alkyl or 1-4C-alkoxy-1-4C-alkyl and

R32 is hydrogen, 1-7C-alkyl, hydroxy-1-4C-alkyl or 1-4C-alkoxy-1-4C-alkyl,

or where



R31 and R32 together and including the nitrogen atom to which they are attached are a pyrrolidino, piperidino, or morpholino radical,

Arom is a R4-, R5-, R6- and R7- substituted mono- or bicyclic aromatic radical selected from the group consisting of phenyl, naphthyl, pyrrolyl, pyrazolyl, imidazolyl, 1,2,3-triazolyl, indolyl, benzimidazolyl, furanyl (furyl), benzofuranyl (benzofuryl), thiophenyl (thienyl), benzothiophenyl (benzothienyl), thiazolyl, isoxazolyl, pyridinyl, pyrimidinyl, quinolinyl and isoquinolinyl,

where

R4 is hydrogen, 1-4C-alkyl, hydroxy-1-4C-alkyl, 1-4C-alkoxy, carboxyl, 1-4C-alkoxycarbonyl, carboxy-1-4C-alkyl, 1-4C-alkoxycarbonyl-1-4C-alkyl, halogen, hydroxyl, aryl, aryl-1-4C-alkyl, aryloxy, aryl-1-4C-alkoxy, trifluoromethyl, nitro, amino, mono- or di-1-4C-alkylamino, 1-4C-alkylcarbonylamino, 1-4C-alkoxycarbonylamino, 1-4C-alkoxy-1-4C-alkoxycarbonylamino or sulfonyl,

R5 is hydrogen, 1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxycarbonyl, halogen, trifluoromethyl or hydroxyl,

R6 is hydrogen, 1-4C-alkyl or halogen and



R7 is hydrogen, 1-4C-alkyl or halogen,

where

aryl is phenyl or substituted phenyl having one, two or three identical or different substituents selected from the group consisting of 1-4C-alkyl, 1-4C-alkoxy, carboxyl, 1-4C-alkoxycarbonyl, halogen, trifluoromethyl, nitro, trifluoromethoxy, hydroxyl and cyano,

or a salt thereof

~~and its salts.~~

2. (Currently amended) A compound of the formula 1 as claimed in claim 1, in which

R1 is 1-4C-alkyl or 3-7C-cycloalkyl,

R2 is 1-4C-alkyl, halogen, hydroxy-1-4C-alkyl, 2-4C-alkenyl or 3-7C-cycloalkyl,

R3 is hydroxy-1-2C-alkyl, 1-4C-alkoxy-1-2C-alkyl, 1-4C-alkoxy-1-4C-alkoxy-1-2C-alkyl, 1-4-C-alkoxycarbonyl or the radical -CO-NR<sub>31</sub>R<sub>32</sub>,

where

R<sub>31</sub> is hydrogen, 1-7C-alkyl, hydroxy-1-4C-alkyl or 1-4C-alkoxy-1-4C-alkyl and



R32 is hydrogen, 1-7C-alkyl, hydroxy-1-4C-alkyl or 1-4C-alkoxy-1-4C-alkyl,

or where

R31 and R32 together and including the nitrogen atom to which they are attached are a pyrrolidino, piperidino, or morpholino radical,

Arom is a R4-, R5-, R6- and R7- substituted mono- or bicyclic aromatic radical selected from the group consisting of phenyl, naphthyl, pyrrolyl, pyrazolyl, imidazolyl, 1,2,3-triazolyl, indolyl, benzimidazolyl, furanyl (furyl), benzofuranyl (benzofuryl), thiophenyl (thienyl), benzothiophenyl (benzothienyl), thiazolyl, isoxazolyl, pyridinyl, pyrimidinyl, quinolinyl and isoquinolinyl,

where

R4 is hydrogen, 1-4C-alkyl, hydroxy-1-4C-alkyl, 1-4C-alkoxy, carboxyl, 1-4C-alkoxycarbonyl, carboxy-1-4C-alkyl, 1-4C-alkoxycarbonyl-1-4C-alkyl, halogen, hydroxyl, aryl, aryl-1-4C-alkyl, aryloxy, aryl-1-4C-alkoxy, trifluoromethyl, nitro, amino, mono- or di-1-4C-alkylamino, 1-4C-alkylcarbonylamino, 1-4C-alkoxycarbonylamino, 1-4C-alkoxy-1-4C-alkoxycarbonylamino or sulfonyl,



R5 is hydrogen, 1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxycarbonyl, halogen, trifluoromethyl or hydroxyl,

R6 is hydrogen, 1-4C-alkyl or halogen and

R7 is hydrogen, 1-4C-alkyl or halogen,

where

aryl is phenyl or substituted phenyl having one, two or three identical or different substituents selected from the group consisting of 1-4C-alkyl, 1-4C-alkoxy, carboxyl, 1-4C-alkoxycarbonyl, halogen, trifluoromethyl, nitro, trifluoromethoxy, hydroxyl and cyano,

or a salt thereof

~~and its salts.~~

3. (Currently amended) A compound of the formula 1 as claimed in claim 1, in which

R1 is 1-4C-alkyl,

R2 is 1-4C-alkyl, halogen, hydroxy-1-4C-alkyl or 2-4C-alkenyl,

R3 is hydroxy-1-2C-alkyl, 1-4C-alkoxy-1-2C-alkyl, 1-4C-alkoxy-1-4C-alkoxy-1-2C-alkyl or the radical -CO-NR<sub>31</sub>R<sub>32</sub>,

where



R31 is hydrogen, 1-7C-alkyl,

R32 is hydrogen, 1-7C-alkyl,

or where

R31 and R32 together and including the nitrogen atom to which they are attached are a pyrrolidino, piperidino, or morpholino radical,

Arom is a R4- and R5- substituted phenyl, furanyl (furyl), thiophenyl (thienyl), pyrrolyl or pyridinyl, where

R4 is hydrogen, 1-4C-alkyl, hydroxy-1-4C-alkyl, 1-4C-alkoxy, halogen or hydroxyl,

R5 is hydrogen, 1-4C-alkyl, 1-4C-alkoxy, halogen or hydroxyl,

or a salt thereof

~~and its salts.~~

4. (Currently amended) A compound of the formula 1 as claimed in claim 1, in which

R1 is 1-4C-alkyl,

R2 is 1-4C-alkyl, halogen, hydroxyl-1-4C-alkyl or 2-4C-alkenyl,



R3 is hydroxy-1-2C-alkyl, 1-4C-alkoxy-1-2C-alkyl, 1-4C-alkoxy-1-4C-alkoxy-1-2C-alkyl or the radical -CO-NR31R32,

where

R31 is hydrogen or 1-7C-alkyl,

R32 is hydrogen or 1-7C-alkyl,

or where

R31 and R32 together and including the nitrogen atom to which they are attached are a pyrrolidino, piperidino, or morpholino radical,

Arom is a R4- and R5- substituted phenyl, furanyl (furyl), thiophenyl (thienyl), pyrrolyl or pyridinyl, where

R4 is hydrogen, 1-4C-alkyl, hydroxy-1-4C-alkyl, 1-4C-alkoxy, halogen or hydroxyl,

R5 is hydrogen, 1-4C-alkyl, 1-4C-alkoxy, halogen or hydroxyl,

or a salt thereof

~~and its salts.~~

5. (Currently amended) A compound of the formula 1 as claimed in claim 1, in which

R1 is 1-4C-alkyl,



R2 is 1-4C-alkyl, halogen or hydroxy-1-4C-alkyl,

R3 is 1-4C-alkoxy-1-2C-alkyl or the radical -CO-NR31R32,

where

R31 is hydrogen or 1-7C-alkyl,

R32 is hydrogen or 1-7C-alkyl,

or wherein

R31 and R32 together and including the nitrogen atom to

which they are attached are a pyrrolidino radical,

Arom is a R4 substituted phenyl or thiophenyl (thienyl),

where

R4 is hydrogen, 1-4C-alkyl or halogen,

or a salt thereof

~~and its salts.~~

6. (Currently amended) A compound of the formula 1 as claimed in claim 1, in which

R1 is 1-4C-alkyl,

R2 is 1-4C-alkyl,

R3 is the radical -CO-NR31R32,

where

R31 is hydrogen or 1-7C-alkyl,

R32 is hydrogen or 1-7C-alkyl,

Arom is phenyl,



or a salt thereof

~~and its salts.~~

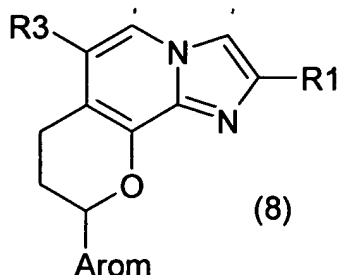
7. (Currently amended) The compound (9S)-2,3-Dimethyl-9-phenyl-7H-8,9-dihydro-pyrano[2,3-c]-imidazo[1,2-a]pyridine-6-carboxylic acid dimethylamide or a salt thereof ~~and its salts.~~

8. (Currently amended) The compound (9S)-2,3-Dimethyl-9-(2-methylphenyl)-7H-8,9-dihydro-pyrano[2,3-c]-imidazo[1,2-a]pyridine-6-carboxylic acid dimethylamide or a salt thereof ~~and its salts.~~

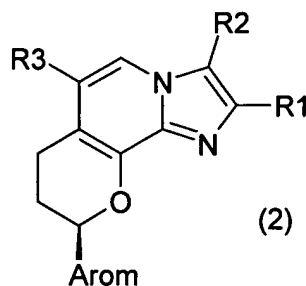
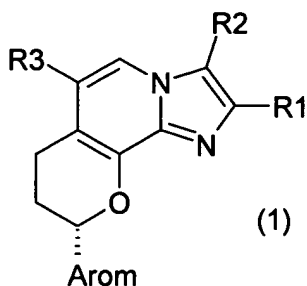
9. (Currently amended) The compound (9S)-9-(4-Fluorophenyl)-2,3-dimethyl-7H-8,9-dihydro-pyrano[2,3-c]-imidazo[1,2-a]pyridine-6-carboxylic acid dimethylamide or a salt thereof ~~and its salts.~~

10. (Currently amended) A process for the synthesis of a compound of the formula 1 as claimed in claim 1, which comprises converting a compound of the formula 8, in which R1, R3 and Arom have the meanings as indicated in claim 1,





to a racemic mixture of a compound of the formula 1 as claimed in claim 1 and its optical antipode of the formula 2, wherein R1, R2, R3 and Arom have the meanings as indicated in claim 1,



and

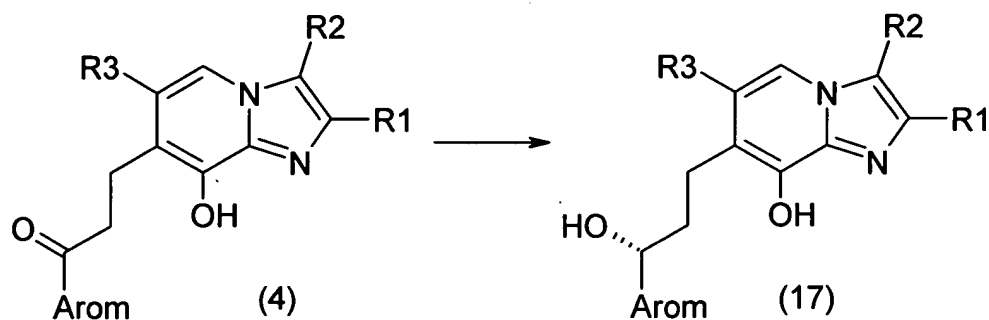
- ~~separation of~~ separating the compound of the formula 1 from its optical antipode of the formula 2 and

- ~~if desired, further derivatization of~~ optionally, further derivatizing the compound of the formula 1 either ~~on the stage of the~~ when said compound is a racemic mixture of the compound of the formula 1 and its optical antipode of the formula 2, or after separation of the compound of the formula 1 from its optical antipode of the formula 2.



11. (Currently amended) A process for the synthesis of a compound of the formula 1 as claimed in claim 1, which comprises

- ~~an asymmetric reduction of~~ asymmetrically reducing a compound of the formula 4 to a compound of the formula 17



in which

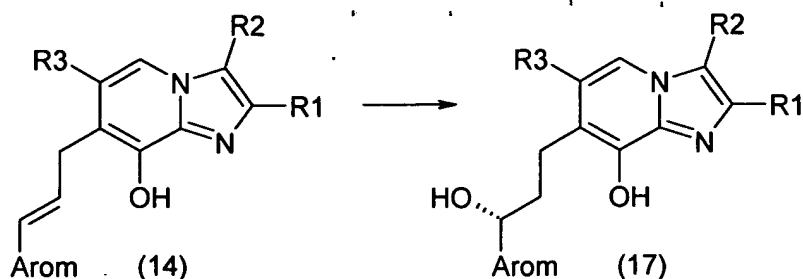
R1, R2, R3 and Arom have the meanings as indicated in claim 1,

- ~~and conversion of~~ converting a compound of the formula 17 into a compound of the formula 1 or a salt thereof ~~its salts~~.

12. (Currently amended) A process for the synthesis of a compound of the formula 1 as claimed in claim 1, which comprises

- ~~conversion of~~ converting a compound of the formula 14 to a compound of the formula 17,





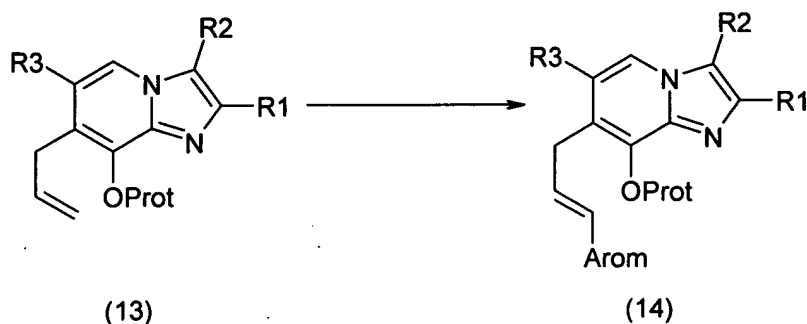
in which

R1, R2, R3 and Arom have the meanings as indicated in claim 1,

- and ~~conversion of~~ converting a compound of the formula 17 into a compound of the formula 1 or a salt thereof ~~its salts~~.

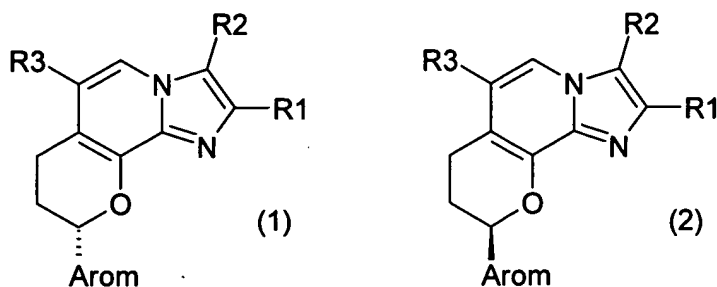
13. (Currently amended) A process for the synthesis of a compound of the formula 1 as claimed in claim 1, which comprises

- converting a compound of the formula 13, in which R1, R2 and R3 have the meanings as indicated in claim 1, into a compound of the formula 14, in which R1, R2, R3 and Arom have the meanings as indicated in claim 1,





- and further ~~conversion of~~ converting the compound of the formula 14 into a racemic mixture of a compound of the formula 1 and its optical antipode of the formula 2



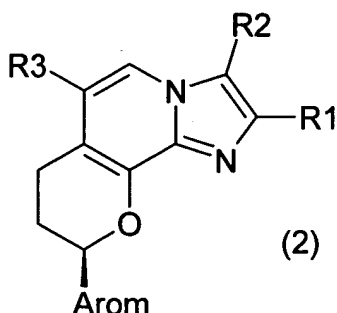
and

- ~~separation of~~ separating the compound of the formula 1 from its optical antipode of the formula 2 and
- ~~if desired, further derivatization of~~ optionally, further derivatizing the compound of the formula 1 either ~~on the stage of the~~ when said compound is a racemic mixture of the compound of the formula 1 and its optical antipode of the formula 2, or after separation of the compound of the formula 1 from its optical antipode of the formula 2.

14. (Currently amended) A ~~medicament~~ pharmaceutical composition comprising a compound as claimed in claim 1 and/or a pharmacologically acceptable salt thereof together with a pharmaceutically acceptable auxiliary and/or excipient ~~customary pharmaceutical auxiliaries and/or excipients.~~



15. (Currently amended) A ~~medicament~~ pharmaceutical composition comprising a compound as claimed in claim 1 and/or a pharmacologically acceptable salt thereof together with a pharmaceutically acceptable auxiliary and/or excipient ~~customary pharmaceutical auxiliaries and/or excipients~~ being substantially free of a compound of the formula 2



in which R1, R2, R3 and Arom have the meanings as indicated in claim 1.

16. (Currently amended) ~~The use of~~ A method of preventing or treating a gastrointestinal disorder in a patient comprising administering to a patient in need thereof a compound as claimed in claim 1 or a ~~and its~~ pharmacologically acceptable salt thereof ~~salts for the prevention and treatment of gastrointestinal disorders.~~